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ABSTRACT

This text explores teaching techniques and adaptations that have proven effective in teaching mathematics concepts and skills to students with learning disabilities. This fourth edition, consistent with the standards developed by the National Council of Teachers of Mathematics, 2000, continues to emphasize problem solving, number sense, student decision making, and ways of effectively incorporating technology in mathematics instruction from calculators and computer spreadsheets to the use of selected Web sites and computer software. For each major topic addressed, the book summarizes standard approaches and points out particular problems that students with learning disabilities may encounter with a given mathematical concept or application. Sample instructional alternatives are detailed. Individual chapters address the following topics: (1) planning instruction for special needs; (2) problem-centered teaching and learning; (3) mathematics, computers and students with learning disabilities; (4) life skills such as money and time; (5) developing number sense such as number and place value; (6) concepts and computation of whole numbers; (7) rational numbers such as early concept work with fractions and decimals; (8) extending understanding and application of fractions and decimals; (9) the four operations and learning and using the basic facts; and (10) hard-to-learn upper-grade topics. An appendix lists software sources. (Contains 17 references.) (DB)